

Claims

- [c1] We claim as our invention:
1. A golf club head comprising:
a body having a crown, a sole, a ribbon, and a front wall with an opening, the crown having a thickness of 0.030 inch to 0.050 inch, the sole having a thickness of 0.030 inch to 0.050 inch, the body composed of a cast titanium alloy material; and
a striking plate insert positioned within the opening and welded to the body, the striking plate insert having a uniform thickness in the range of 0.080 inch to 0.120 inch, the striking plate insert composed of a formed titanium alloy material comprising titanium, aluminum, tin, chromium, molybdenum, zirconium and silicon, and having a microstructure of at least 40% alpha phase; wherein the golf club head has a volume ranging from 350 cubic centimeters to 420 cubic centimeters and a mass ranging from 185 grams to 215 grams, and the golf club head has a coefficient of restitution ranging from 0.80 to 0.83.
- [c2] 2. A golf club head comprising:
a body having a crown, a sole, a ribbon, and a front wall with an opening; and
a striking plate insert positioned within the opening, the striking plate insert having a uniform thickness in the range of 0.040 inch to 0.250 inch, the striking plate insert composed of a titanium alloy material having a microstructure of at least 40% alpha phase.
- [c3] 3. The golf club head according to claim 2 wherein the striking plate insert is composed of a formed titanium alloy material material. ¹
- [c4] 4. The golf club head according to claim 2 wherein striking plate insert is composed of a forged titanium alloy material. _{the}
- [c5] 5. The golf club head according to claim 2 wherein the body is composed of a cast metal material.
- [c6] 6. The golf club head according to claim 2 wherein the striking plate insert is composed of a formed titanium alloy material and the body is composed of a cast titanium alloy material.

